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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/073,281	02/13/2002	Junko Ami	219178US2RD	3511

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OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

SEFCHECK, GREGORY B

ART UNIT	PAPER NUMBER
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2619

NOTIFICATION DATE	DELIVERY MODE
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12/07/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/073,281

Applicant(s)

AMI ET AL.

Examiner

Gregory B. Sefcheck

Art Unit

2619

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 October 2007.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 3 and 4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 3 and 4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

- Applicant's Amendment filed 10/18/2007 is acknowledged.
- Claim 3 has been amended.
- Claims 1, 2, and 5-11 were previously cancelled.
- Claims 3 and 4 remain pending.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 3 and 4 rejected under 35 U.S.C. 102(e) as being anticipated by Mikkonen (US006587457B1).

- In regards to Claims 3 and 4,

Mikkonen discloses a method of connecting data flows between layers while supporting quality of service (Title; Abstract). Mikkonen discloses how physically transmitted data, such as ATM, is exchanged between processing layers for realizing wireless communication between two network entities (Fig. 4A; Col. 1, lines 9-18; Col.

2-3, lines 56-20; meets claim 3 – method for communicating packets between communication devices having wireless interfaces via a wireless network).

Mikkonen discloses managing communications between hosts based upon labels in the header block of a packet, where labels enable determining/identifying the service class/type and quality of service requirements for the specified service (Fig. 1; Col. 1-2, lines 55-40; Col. 7-8, lines 57-61; Col. 12, lines 4-19; meets claim 3 – determining service class requested by packet based on the header).

Mikkonen discloses a flow label defined for a packet that identifies the application (upper) layer connection of a packet to be transmitted over a corresponding physical layer connection (Col. 1, lines 58-60; meets claim 3 – specifying in a host controller interface, for a packet exchanged from an upper layer to the physical layer, one of multiple connection handles identifying a respective requested service class corresponding to logical channels).

Mikkonen further discloses the defined service classes having this correspondence between upper layer quality of service and physical connections also specify other requirements of the service, including susceptibility to distortion, bandwidth, reliability, delay, etc. (Col. 3-4, lines 61-58; Col. 8, lines 61-65; meets claim 3 - service class indicating a particular quality of service and including a response speed preference, transmission delay preference, distortion preference, guaranteed band area or packet type).

Mikkonen shows that packets are distributed to a particular buffer based upon the determined service, quality of service, and/or other corresponding requirements

associated with information in the packet's header and flow label (Col. 12-13, lines 58-10; meets claim 3 – distributing base band packet to one of a plurality of buffers corresponding to specified service class and connection handle depending upon determination; claim 4 – transmitting base band packet in one of plurality of buffers to another communication device corresponding to specified service class).

Response to Arguments

3. Applicant's arguments filed 10/18/2007 have been fully considered but they are not persuasive.

- In the Remarks on pg. 4-6 of the Amendment, Applicant contends that Mikkonen does not disclose the features of claim 3, as amended. Specifically, that Mikkonen does not disclose specifying connection handles "in a host controller interface".
- The Examiner respectfully disagrees. As now shown in the above rejections, Mikkonen discloses the transmitting and receiving terminal equipment of the cited disclosure as "hosts". Therefore, the managing (or "control") of communications, including the use of flow labels for mapping application layer connections to corresponding physical layer connection, meets the newly added limitation of specifying in a host controller interface, and the rejections are proper.

- In the Remarks on pg. 4-6 of the Amendment, Applicant contends that newly added limitation "each logical channel is corresponded to a respective connection handle" differentiates claim 3 from Mikkonen.
- The Examiner respectfully disagrees. The claims prior to the present amendment specified that "one of multiple connection handles is specified for identifying a respective service class requested by the communication packet and corresponding to a respective logical channel". Therefore, the newly added limitation does not appear to further limit claim 3. As such, this limitation is shown to be met by Mikkonen and the rejections are proper.

- In the Remarks on pg. 4-6 of the Amendment, Applicant contends that newly added limitation "each of the plurality of buffers corresponding to a respective connection handle" differentiates claim 3 from Mikkonen.
- The Examiner respectfully disagrees. The claims prior to the present amendment specified that packets are distributed to one of a plurality of buffers corresponding to the specified service class. Furthermore, the claims also recite a correspondence of service class to connection handle. Therefore, the disclosure of Mikkonen, as shown in the rejection (specifically column 13, lines 1-10, which illustrates a separate queue for each different application is preferable), meets the newly added limitation and the rejections are proper.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory B. Sefcheck whose telephone number is 571-272-3098. The examiner can normally be reached on Monday-Friday, 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GBS *GBS*
11-29-2007

Wing F. Chan 12/3/07
WING CHAN
SUPERVISORY PATENT EXAMINER